

GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: February 21, 2003, 12:30:13 ; Search time 92 seconds  
(without alignments)  
4.479 Million cell updates/sec

Title: SHORT-PEP  
Perfect score: 16  
Sequence: 1 RW 2

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 4  
Minimum DB seq length: 0  
Maximum DB seq length: 5

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database :  
1: SPREMBL\_21:\*  
2: sp.archaea:\*  
3: sp.bacteria:\*  
4: sp.fungi:\*  
5: sp.invertebrate:\*  
6: sp.mammal:\*  
7: sp.mhc:\*  
8: sp.organelle:\*  
9: sp.phage:\*  
10: sp.plant:\*  
11: sp.rodent:\*  
12: sp.virus:\*  
13: sp.vertebrate:\*  
14: sp.unclassified:\*  
15: sp.virus:\*  
16: sp.bacteriap:\*  
17: sp.archaeap:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6	37.5	5	P83308	P83308 gallus galli
2	2	12.5	4	11 Q08433	Q08433 rattus norv
3	2	12.5	5	2 P83073	P83073 bacillus ce
4	2	12.5	5	10 Q99007	Q99007 hordeum vul

## ALIGNMENTS

RESULT 1  
ID P83308 PRELIMINARY; PRT; 5 AA.  
AC P83308;  
DT 01-JUN-2002 (TREMREL. 21, Created)  
DT 01-JUN-2002 (TREMREL. 21, Last sequence update)  
DT 01-JUN-2002 (TREMREL. 21, Last annotation update)

DE FMRFamide-like neuropeptide (LPRF-amide).  
OS Gallus gallus (Chicken).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;  
OC Gallus.  
OX NCBI\_TaxID=9031;  
RN [1]  
RP SEQUENCE, AND SYNTHESIS.  
RC TISSUE-BRAIN;  
RX PubMed=6137771;  
RA Dockray G.J., Reeve J.R. Jr., Shively J., Gayton R.J., Barnard C.S.;  
RT "A novel active pentapeptide from chicken brain identified by  
RT antibodies to FMRFamide."  
RL Nature 305:328-330(1983).  
CC -1- FUNCTION: MAY FUNCTION AS A NEUROTRANSMITTER OR MODULATOR.  
CC -1- SIMILARITY: BELONGS TO THE FARP (FMRFAMIDE RELATED PEPTIDE)  
CC FAMILY.  
KW Neuropeptide.  
SQ SEQUENCE 5 AA; 645 MW; 69D4073767400000 CRC64;

Query Match 37.5%; Score 6; DB 13; Length 5;  
Best Local Similarity 50.0%; Pred. NO. 6.7e+05;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

RESULT 2  
ID Q08433 PRELIMINARY; PRT; 4 AA.  
AC Q08433;  
DT 01-NOV-1996 (TREMREL. 01, Last sequence update)  
DT 01-NOV-1996 (TREMREL. 01, Last sequence update)  
DT 01-JAN-1999 (TREMREL. 09, Last annotation update)  
DE UDP-glucuronosyltransferase, microsomal (EC 2.4.1.17) (UDPGT)  
DE (Fragment).  
OS Rattus norvegicus (Rat).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
OX NCBI\_TaxID=10116;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN-GUNN;  
RX MEDLINE=91282758; PubMed=1840486;  
RA Sato H., Aono S., Kashiwamata S., Kohwai O.;  
RT "Genetic defect of bilirubin UDP-glucuronosyltransferase in the  
RT hyperbilirubinemic Gunn rat."  
RL Biochem. Biophys. Res. Commun. 177:1161-1164(1991).  
CC -1- FUNCTION: UDPGT IS OF MAJOR IMPORTANCE IN THE CONJUGATION AND  
CC SUBSEQUENT ELIMINATION OF POTENTIALLY TOXIC XENOBIOTICS AND  
CC ENDOGENOUS COMPOUNDS.  
CC -1- CATALYTIC ACTIVITY: UDP-GLUCURONATE + ACCEPTOR = UDP + ACCEPTOR  
CC BETA-D-GLUCURONOSIDE.  
CC -1- SUBCELLULAR LOCATION: MICROsome.  
DR EMBL: S38636; AAB19259.1;  
KW Transferase; Glycosyltransferase; Microsome; Multigene family.  
FT NON-TER 1 1  
FT NON-TER 4 4  
SQ SEQUENCE 4 AA; 473 MW; 633732C420000000 CRC64;

Query Match 12.5%; Score 2; DB 11; Length 4;  
Best Local Similarity 0.0%; Pred. NO. 6.7e+05;  
Matches 0; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

RESULT 3  
ID P83073

ID P83073 PRELIMINARY; PRT; 5 AA.  
 AC P83073;  
 DT 01-OCT-2001 (TREMBlrel. 18, Created)  
 DT 01-OCT-2001 (TREMBlrel. 18, Last sequence update)  
 DT 01-OCT-2001 (TREMBlrel. 18, Last annotation update)  
 DE 88 kDa protein (Fragment).  
 OS Bacillus cereus.  
 CC Bacteria; Firmicutes; Bacillus/Clostridium group; Bacillales;  
 CC Bacillaceae; Bacillus.  
 OX NCBI\_TaxID=1396;  
 RN [1]  
 RP SEQUENCE.  
 RC STRAIN=NCIMB 11796;  
 RA Browne N., Dowds B.C.A.;  
 RL Submitted (JUL-2001) to the SWISS-PROT data bank.  
 FT NON\_TER 5  
 SQ SEQUENCE 5 AA; 623 MW; 6B01AAA336F00000 CRC64;

Query Match 12.5%; Score 2; DB 2; Length 5;  
 Best Local Similarity 0.0%; Pred. No. 6.7e+05;  
 Matches 0; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
 Db 2 K 2

RESULT 4  
 Q99007 PRELIMINARY; PRT; 5 AA.  
 ID Q99007;  
 AC Q99007;  
 DT 01-NOV-1996 (TREMBlrel. 01, Created)  
 DT 01-NOV-1996 (TREMBlrel. 01, Last sequence update)  
 DT 01-NOV-1998 (TREMBlrel. 08, Last annotation update)  
 DE Alpha-amylase (EC 3.2.1.1) (Fragment).  
 GN AMY1.  
 OS Hordeum vulgare (Barley).  
 CC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 CC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;  
 CC Triticeae; Hordeum.  
 OX NCBI\_TaxID=4513;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=HIMALAYA; TISSUE=ALEURONE LAYER;  
 RX MEDLINE=91329704; PubMed=1831055;  
 RA Jacobsen J.V., Close T.J.;  
 RT "Control of transient expression of chimeric genes by gibberellic  
 RT acid and abscisic acid in protoplasts prepared from mature barley  
 RT aleurone layers.";  
 RL Plant Mol. Biol. 16:713-721(1991).  
 CC -1- CATALYTIC ACTIVITY: ENDOMYDOLYSIS OF 1,4-ALPHA-GLUCOSIDIC  
 CC LINKAGES IN OLIGOSACCHARIDES AND POLYSACCHARIDES.  
 CC -1- COFACTOR: BINDS A CALCIUM ION REQUIRED FOR ITS ACTIVITY.  
 CC -1- MISCELLANEOUS: THERE ARE AT LEAST 4 TYPES OF ALPHA-AMYLASE IN  
 CC BARLEY.  
 DR EMBL; X54643; CAA38455.1; -  
 KW Hydrolyase; Glycosylase; Carbohydrate metabolism; Seed; Germination;  
 KM Calcium; Multigene family.  
 FT NON\_TER 5  
 SQ SEQUENCE 5 AA; 600 MW; 61E3344DD6F00000 CRC64;

Query Match 12.5%; Score 2; DB 10; Length 5;  
 Best Local Similarity 0.0%; Pred. No. 6.7e+05;  
 Matches 0; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
 Db 4 K 4

Search completed: February 21, 2003, 12:33:48  
 Job time : 93 secs